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PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

WOOD, David, J.

Pfizer Research and Development

Ramsgate Road Sandwich

Kent CT13 9NJ GRANDE BRETAGNE

EUROPEAN PHARMA PATENT DEPARTMENT

0 1 JUN 2006

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(PCT Rule 71.1)

Date of mailing

(day/month/year)

01.06.2006

Applicant's or agent's file reference

International application No.

PCT/B2005/000597

PC25930A

International filing date (day/month/year)

Priority date (day/month/year)

07.03.2005

18.03.2004

IMPORTANT NOTIFICATION

Applicant

PFIZER LIMITED

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filling translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/B/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and malling address of the international preliminary examining authority:

European Patent Office - P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31.70 340 - 3016

DESIT NO Authorized Officer

Rossi, C

RENEWALS

RECORDABLE Tel. +31 70 340-332

FILING

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PC25930A	FOR FURTHER ACTION	See Form PCT/IPEA/416		
International application No. PCT/IB2005/000597	International filing date (day/month/yea 07.03.2005	ar) Priority date (day/month/year) 18.03.2004		
International Patent Classification (IPC) or national classification and IPC INV. C07D231/40 C07D231/42 C07D231/50 C07D401/12 C07D417/04 C07D403/12 C07D413/12 C07D417/12 A01N43/56 A61K31/415 A61P33/00				
Applicant PFIZER LIMITED				
This report is the international pre Authority under Article 35 and tran	liminary examination report, establishmitted to the applicant according t	shed by this International Preliminary Examining to Article 36.		
2. This REPORT consists of a total of	of 7 sheets, including this cover she	eet.		
3. This report is also accompanied b	y ANNEXES, comprising:			
a. 🛛 sent to the applicant and to	o the International Bureau) a total of	1-16 sheets, as follows:		
Sheets of the description and bring sheets contains Administrative Instruct	ng rectifications authorized by this A	ave been amended and are the basis of this report Authority (see Rule 70.16 and Section 607 of the		
☐ sheets which supersed beyond the disclosure Supplemental Box.	de earlier sheets, but which this Aut in the international application as fil	hority considers contain an amendment that goes led, as indicated in item 4 of Box No. I and the		
sequence listing and/or tab	tureau only) a total of (indicate type eles related thereto, in electronic for ng (see Section 802 of the Administ	and number of electronic carrier(s)) , containing a m only, as indicated in the Supplemental Box rative Instructions).		
4. This report contains Indications re	lating to the following items:			
☑ Box No. I Basis of the rep	ort	·		
☐ Box No. II Priority		•		
☑ Box No. III Non-establishm	ent of opinion with regard to novelty	, inventive step and industrial applicability		
☐ Box No. IV Lack of unity of				
⊠ Box No. V Reasoned state applicability; citr	ment under Article 35(2) with regard ations and explanations supporting s	d to novelty, inventive step or industrial such statement		
☑ Box No. VI Certain docume				
·	in the international application			
☐ Box No. VIII Certain observa	tions on the international application	n		
Date of submission of the demand	Date of com	pletion of this report		
31.03.2005	01.08.200	08		
Name and mailing address of the internation	a) Authorized	officer		
preliminary examining authority: European Patent Office - P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016		No. +31 70 340-2002		
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IAP16 Rec'd PCT/PTO 18 SEP 2006 10/593133 International application No. PCT/B2005/000597

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

	Вох	No. I Basis of the	e report	
1.	With	h regard to the langu	uage, this report is based on	
	\boxtimes	the international app	plication in the language in which it was filed	
		a translation of the i	international application into, which is the language ished for the purposes of:	
		Dublication of the	arch (under Rules 12.3(a) and 23.1(b)) e international application (under Rule 12.4(a)) diminary examination (under Rules 55.2(a) and/or 55.3(a))	
2.	hav	re been furnished to t	ents* of the international application, this report is based on (replacement the receiving Office in response to an invitation under Article 14 are referred and are not annexed to this report):	sheets which ad to in this
	Des	cription, Pages		,
	1-14	11	as originally filed	•
	Clai	ims, Numbers		
	1-15	5	received on 19.01.2006 with letter of 18.01.2006	
		a sequence listing a	and/or any related table(s) - see Supplemental Box Relating to Sequence L	isting
3.		The amendments h	nave resulted in the cancellation of:	
		☐ the description, ☐ the claims, Nos.		٠.
		☐ the drawings, sh☐ the sequence lis	neets/ligs	
4.	□ had Sup	This report has bee I not been made, sind oplemental Box (Rule	en established as if (some of) the amendments annexed to this report and lace they have been considered to go beyond the disclosure as filed, as indice 70.2(c)).	isted below cated in the
		☐ the description,☐ ☐ the claims, Nos.☐ ☐ the drawings, sh☐ ☐ the sequence lis	pages neets/figs	
	*	•	ies, some or all of these sheets may be marked "superse	ded."

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Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
	The	questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- ious), or to be industrially applicable have not been examined in respect of:
		the entire international application,
	⊠	claims Nos. 15 (as to industrial applicability only)
	bec	ause:
		the said international application, or the said claims Nos. 15 relate to the following subject matter which does not require an international preliminary examination (specify):
		see separate sheet
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed (specify).
	. 🗆	no international search report has been established for the said claims Nos.
		a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
		furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
		furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
	•	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13 <i>ter.</i> 1(a) or (b) and 13 <i>ter.</i> 2.
		a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Preliminary Examining Authority in a form and manner acceptable to it.
		the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
		Can appear to about for further details

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-15

No: Claims

Inventive step (IS)

Yes: Claims

No: Claims

1-15

Industrial applicability (IA)

Yes: Claims

1-14

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VI Certain documents cited

 Certain published documents (Rule 70.10) and /or

2. Non-written disclosures (Rule 70.9)

see separate sheet

Re Item III.

Claim 15 relates to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of this claim (Article 34(4)(a)(I) PCT).

Re Item V.

Reference is made to the following documents:

D01:	EP 1 319 657 A (NIHON NOHYAKU CO., LTD.) 18 June 2003 (2003-06-18)
D02:	DE 195 11 269 A (CIBA-GEIGY AG) 5 October 1995 (1995-10-05)
D03:	DATABASE WPI, Section Ch, Week 199340, Derwent Publications Ltd.,
	London, GB; Class C02, AN 1993-317444, XP002330928 (JP 05 230029 A
	(UBE IND LTD) 7 September 1993 (1993-09-07))
D04:	DATABASE CAPLUS, CHEMICAL ABSTRACTS SERVICE, COLUMBUS,
	OHIO, US; XP002330924, Database accession no. 1965:431646
D05:	DATABASE CAPLUS, CHEMICAL ABSTRACTS SERVICE, COLUMBUS,
٠.	OHIO, US; XP002330925, Database accession no. 1969:36415
D06:	DATABASE CAPLUS, CHEMICAL ABSTRACTS SERVICE, COLUMBUS,
	OHIO, US; XP002330926, Database accession no. 1964:3141
D07:	DATABASE CROSSFIRE, BEILSTEIN INSTITUT ZUR FOERDERUNG DER
	CHEMISCHEN WISSENSCHAFTEN; XP002330927
D08:	GUARNERI M ET AL: "Contributo alla conoscenza di pirazolsulfonamidi"
	ANNALI DI CHIMICA, vol. 49, 1959, pages 958-963, XP008048105
D09:	KOCH A ET AL: "QSAR and molecular modelling for a series of isomeric X-
	sulfanilamido-1-phenylpyrazoles" QUANTITATIVE STRUCTURE-ACTIVITY
	RELATIONSHIPS, vol. 12, no. 4, 1993, pages 373-382, XP008048108
D10:	ALBERTI C ET AL: "Sulfanilamidi pirazoliche. Nota VIII" FARMACO, EDIZIONE
	SCIENTIFICA, vol. 21, no. 12, 1966, pages 883-891, XP008048107
D11:	ALBERTI C ET AL: "Sulfanilamidi pirazoliche. Nota VI" FARMACO, EDIZIONE
	SCIENTIFICA, vol. 19, no. 7, 1964, pages 618-637, XP008048116
D12:	ALBERTI C ET AL: "Sulfanilamidi pirazoliche. Nota V" FARMACO, EDIZIONE

	SCIENTIFICA, vol. 19, no. 5, 1964, pages 459-473, XP008048115
D13 :	ALBERTI C ET AL: "Sulfanilamidi pirazoliche. Nota IV" FARMACO, EDIZIONE
	SCIENTIFICA, vol. 17, no. 6, 1962, pages 460-467, XP008048106
D14:	ALBERTI C ET AL: "Sulanilamidi pirazoliche. Nota XIII" FARMACO, EDIZIONE
	SCIENTIFICA, vol. 29, no. 12, 1974, pages 957-966, XP002330922
D15:	ALBERTI C ET ET: "Sulfanilamidi pirazoliche. Nota XI" FARMACO, EDIZIONE
`,	SCIENTIFICA, vol. 26, no. 1, 1971, pages 66-88, XP002330923
D16:	FUSCO R ET AL: "Sintesi e proprieta' farmacologiche di composti pirazolici.
	Nota I" FARMACO, EDIZIONE SCIENTIFICA, vol. 23, no. 19, 1968, pages 919-

Novelty (Article 33(2) PCT)

944, XP001085259

The available prior art D01-D16 does not disclose 3-substituted-4-sulphonylamino-pyrazoles according to claim 1, or the use of 4-sulphonylamino-pyrazoles according to claim 14 for preparing a parasiticidal medicament: the subject-matter of claims 1-15 is therefore novel.

Inventive step (Article 33(3) PCT)

The subject-matter of claims 1-15 does not involve an inventive step:

D1, which is considered to represent the closest prior art, describes N-(4-pyrazolyl) amides useful as insecticides or nematocides, see in particular claims 1 and 10.

In the light of the disclosure of D1 the problem underlying the present application can be seen in the provision of further pesticides.

To solve this problem, the present application proposes to replace the amide group of the compounds of D1 by a sulphonamide group.

Such a structural modification is however an obvious measure in the design of further pesticidal compounds, particularly in view of the teachings of D2 (see the definition of R₃)

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and of D3 (see example 8), which does not involve an inventive step in the absence of substantiated, directly resulting, unexpected effects.

Industrial applicability (Article 33(4) PCT)

The compounds, compositions and methods of claims 1-14 can be applied in the chemical industry.

For the assessment of the present claim 15 on the question whether it is industrially applicable, no unified criteria exist in the PCT Contracting States.

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